

12-12-2000



TO THE ASSISTANT COMMISSIONER

SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS ON COVER SHEET THEREOF.

101547120

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Itsuhei OGATA
3. Eturo YASUDA
5. Masanori YAMADA
- 7.

2. Takumi KATAOKA
4. Kaoru KUZUOKA
- 6.
- 8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION and NIPPON SOKEN, INC.

11/30/2000 FFANAEIA 00000026 09722317

04 FC:581

40.00 DP

ADDRESS: 1-1 Showa-cho Kariya-city Aichi-pref., 448-8661 JAPAN
14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, JAPANADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

- ☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST
☐ ORIGINAL ☒ FACSIMILE/PHOTOCOPY
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: September 1, 1999

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) September 1, 1999

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

| A. PAT. APP. NO.(S) series code/serial no | M# | 1 st INVENTOR if not in item 1 | B. PATENT NO(S) | M# | 1 st INVENTOR if not in item 1 |
|--|--------|--|-----------------|----|--|
| NEW APPLICATION | 274506 | | | | |

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:Pillsbury Madison & Sutro LLP
Intellectual Property Group
1100 New York Avenue, NW
Ninth Floor
Washington, DC 20005-3918

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

PMS 274506

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

| | | |
|-------------------------|------------|------------|
| UNDER ORDER NO | 11349 | 274506 |
| dup. sheet not required | CLIENT NO. | MATTER NO. |

9. STATEMENT AND SIGNATURE.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Signature

10. Total number of pages including this
cover sheet, attachments and document
(do not file dup. Cover sheet)

2

Attorney: Timothy J. Klima/Glenn T. Barrett

Reg. No. 34852/38705

Date: November 28, 2000

Atty/Sec: TJK/mjb

TEL: (202) 861-3662

FAX: (202) 822-0944

FILE WITH PTO RETURN RECEIPT (PAT-103A)

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

1) DENSO CORPORATION

1-1 SHOWA-CHO KARIYA-CITY AICHI-PREF. 448-8661 JAPAN

2) NIPPON SOKEN, INC.

14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan

(Insert
ASSIGNEE's
Name(s)
Address(es))

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of
Invention)

WIDE-RANGE TYPE THERMISTOR ELEMENT AND METHOD OF PRODUCING
THE SAME

relating to International Patent Application PCT/JP _____/_____ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date
of execution
of application,
if not
concurrent)

(a) executed on _____;

(b) filed on _____,
Serial No. _____/_____;

(Pillsbury Madison & Sutro LLP
Washington, D.C.)

is hereby authorized to insert in (b) the specified
data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

| | | |
|--|---------------------------------------|--------------------------------|
| 1) <u>Itsuhei Ogata</u> (SIGNATURE) | <u>Itsuhei Ogata</u> (TYPE NAME) | <u>Sept. 1, 1999</u> (DATE) |
| 2) <u>Takumi Kataoka</u> (SIGNATURE) | <u>Takumi Kataoka</u> (TYPE NAME) | <u>Sept. 1, 1999</u> (DATE) |
| 3) <u>Eturo Yasuda</u> (SIGNATURE) | <u>Eturo Yasuda</u> (TYPE NAME) | <u>Sept 1, 1999</u> (DATE) |
| 4) <u>Kaoru Kuzuoka</u> (SIGNATURE) | <u>Kaoru Kuzuoka</u> (TYPE NAME) | <u>Sept 1, 1999</u> (DATE) |
| 5) <u>Masanori Yamada</u> (SIGNATURE) | <u>Masanori Yamada</u> (TYPE NAME) | <u>Sept 1, 1999</u> (DATE) |
| 6) _____ (SIGNATURE) | _____ (TYPE NAME) | _____ (DATE) |
| 7) _____ (SIGNATURE) | _____ (TYPE NAME) | _____ (DATE) |

Declaration and Power of Attorney For Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。

私の住所、私書箱、国籍は下記の私の氏名の後に記載された通りです。

下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者（下記の氏名が一つの場合）もしくは最初かつ共同発明者であると（下記の名称が複数の場合）信じています。

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

WIDE-RANGE TYPE THERMISTOR ELEMENT
AND METHOD OF PRODUCING THE SAME

上記発明の明細書（下記の欄でx印がついていない場合は、本表に添付）は、

☐ 月 日に提出され、米国出願番号または特許協定条約国際出願番号を _____ とし、
（該当する場合） _____ に訂正されました。

the specification of which is attached hereto unless the following box is checked:

☒ was filed on August 25, 1999
as United States Application Number or
PCT International Application Number
_____ and was amended on
_____ (if applicable).

私は、特許請求範囲を含む上記訂正後の明細書を検討し、内容を理解していることをここに表明します。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

私は、連邦規則法典第37編第1条56項に定義されたとおり、特許資格の有無について重要な情報を開示する義務があることを認めます。

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

私は、米国法典第35編119条(a)-(d)項又は365条(b)項に基づき下記の、米国以外の国の少なくとも一カ国を指定している特許協定条約365(a)項に基づき国際出願、又は外国での特許出願もしくは発明者証の出願についての外国優先権をここに主張するとともに、優先権を主張している、本出願の前に出願された特許または発明者証の外国出願を以下に、枠内をマークすることで、示しています。

I hereby claim foreign priority under Title 35, United States Code, Section 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

外国での先行出願

| | |
|-------------------------------|--------------|
| <u>9-066827 (Pat. Appln.)</u> | <u>Japan</u> |
| (Number) | (Country) |
| (番号) | (国名) |
| <u>9-156931 (Pat. Appln.)</u> | <u>Japan</u> |
| (Number) | (Country) |
| (番号) | (国名) |

| |
|------------------------|
| <u>19/March/1997</u> |
| (Day/Month/Year Filed) |
| (出願年月日) |
| <u>13/June/1997</u> |
| (Day/Month/Year Filed) |
| (出願年月日) |

Priority Not Claimed

優先権主張なし

This application is a C-I-P application of serial No. 09/040,529 filed on March 18, 1998.

Japanese Language Declaration
(日本語宣言書)

Prior Foreign Application(s)

Priority Not Claimed

外国での先行出願
9-340313 (Pat. Appln.) Japan
(Number) (Country)
(番号) (国名)
(Number) (Country)
(番号) (国名)
(Number) (Country)
(番号) (国名)
(Number) (Country)
(番号) (国名)

10/December/1997
(Day/Month/Year Filed)
(出願年月日)
(Day/Month/Year Filed)
(出願年月日)
(Day/Month/Year Filed)
(出願年月日)
(Day/Month/Year Filed)
(出願年月日)

優先権主張なし

☐

☐

☐

☐

私は、第35編米国法典119条(e)項に基いて下記の米
国特許出願規定に記載された権利をここに主張いたします。

I hereby claim the benefit under Title 35, United States Code,
Section 119(e) of any United States provisional application(s) listed
below.

(Application No.) (Filing Date)
(出願番号) (出願日)

(Application No.) (Filing Date)
(出願番号) (出願日)

私は、下記の米国法典第35編120条に基いて下記の米
国特許出願に記載された権利、又は米国を指定している特許
協力条約365条(c)に基づく権利をここに主張します。また、
本出願の各請求範囲の内容が米国法典第35編112条
第1項又は特許協力条約で規定された方法で先行する米国特
許出願に開示されていない限り、その先行米国出願書提出日
以降で本出願書の日本国内または特許協力条約国際提出日ま
での期間中に入手された、運邦規則法典第37編1条56項
で定義された特許資格の有無に関する重要な情報について開
示義務があることを認識しています。

I hereby claim the benefit under Title 35, United States Code,
Section 120 of any United States application(s), or 365(c) of any
PCT International application designating the United States, listed
below and, insofar as the subject matter of each of the claims of
this application is not disclosed in the prior United States or PCT
International application in the manner provided by the first
paragraph of Title 35, United States Code Section 112. I
acknowledge the duty to disclose information which is material to
patentability as defined in Title 37, Code of Federal Regulations,
Section 1.56 which became available between the filing date of the
prior application and the national or PCT International filing date of
application.

09/040,529 March 18, 1998
(Application No.) (Filing Date)
(出願番号) (出願日)

Pending
(Status: Patented, Pending, Abandoned)
(現況: 特許許可済、係属中、放棄済)

(Application No.) (Filing Date)
(出願番号) (出願日)

(Status: Patented, Pending, Abandoned)
(現況: 特許許可済、係属中、放棄済)

私は、私自身の知識に基づいて本宣言書中で私が行なう表
明が真実であり、かつ私の入手した情報と私の信じるところ
に基づく表明が全て真実であると信じていること、さらに故
意になされた虚偽の表明及びそれと同等の行為は米国法典第
18編第1001条に基づき、罰金または拘禁、もしくはその
両方により処罰されること、そしてそのような故意による
虚偽の声明を行なえば、出願した、又は既に許可された特許
の有効性が失われることを認識し、よってここに上記のごと
く宣誓を致します。

I hereby declare that all statements made herein of my own
knowledge are true and that all statements made on information
and belief are believed to be true; and further that these
statements were made with the knowledge that willful false
statements and the like so made are punishable by fine or
imprisonment, or both, under Section 1001 of Title 18 of the
United States Code and that such willful false statements may
jeopardize the validity of the application or any patent issued
thereon.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Japanese Language Declaration (日本語宣言書)

委任状: 私は下記の発明者として、本出願に関する一切の手続きを米特許商標局に対して遂行する弁理士または代理人として、下記の者を指名いたします。(弁理士、または代理人の氏名及び登録番号を明記のこと)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number)

And I hereby appoint Pillsbury Madison & Sutro LLP, Intellectual Property Group, 1100 New York Avenue, N.W., Ninth Floor, East Tower, Washington, D.C. 20005-3918, telephone number (202) 861-3000 (to whom all communications are to be directed), and the below-named persons (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent, and I hereby authorize them to delete names/numbers below of persons no longer with their firm and to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct the above Firm and/or a below attorney in writing to the contrary.

| | | | | | | | |
|----------------------|-------|-------------------|-------|--------------------|-------|--------------------|-------|
| Paul N. Kokulis | 16773 | David W. Brinkman | 20817 | Paul E. White, Jr. | 32011 | Stephen C. Glazier | 31361 |
| Raymond F. Lippitt | 17519 | George M. Sirilla | 18221 | Michelle N. Lester | 32331 | Paul F. McQuade | 31542 |
| G. Lloyd Knight | 17698 | Donald J. Bird | 25323 | | | Ruth N. Morduch | 31044 |
| Carl G. Love | 18781 | | 25647 | G. Paul Edgell | 24238 | Richard H. Zaitlen | 27248 |
| Edgar H. Martin | 20534 | Peter W. Gowdey | 25872 | Lynn E. Eccleston | 35861 | Roger R. Wise | 31204 |
| William K. West, Jr. | 22057 | Dale S. Lazar | 28872 | David A. Jakopin | 32995 | | |
| Kevin E. Joyce | 20508 | Glenn J. Perry | 28458 | Mark G. Paulson | 30793 | | |
| | | Kendrew H. Colton | 30368 | Timothy J. Klima | 34852 | | |

| | | | |
|-------------|---|-----------------------------|----------------------|
| 唯一または第一発明者名 | Full name of sole or first inventor | Itsuhei Ogata | |
| 発明者の署名 | 日付 | Inventor's signature | Date |
| | | <i>Itsuhei Ogata</i> | <i>Sept. 1, 1999</i> |
| 住所 | Residence Nishio-shi, Aichi, Japan | | |
| 国籍 | Citizenship Japanese | | |
| 私書箱 | Post Office Address c/o NIPPON SOKEN, INC., 14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan | | |
| 第二共同発明者 | Full name of second joint inventor, if any Takumi Kataoka | | |
| 第二共同発明者 | 日付 | Second inventor's signature | Date |
| | | <i>Takumi Kataoka</i> | <i>Sep 1 1999</i> |
| 住所 | Residence Nishio-shi, Aichi, Japan | | |
| 国籍 | Citizenship Japanese | | |
| 私書箱 | Post Office Address c/o NIPPON SOKEN, INC., 14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan | | |

(第三以降の共同発明者についても同様に記載し、署名をすること)

(Supply similar information and signature for third and subsequent joint inventors.)

| | | |
|---------|----|---|
| 第三共同発明者 | | Full name of third joint inventor, if any Eturo Yasuda |
| 第三共同発明者 | 日付 | Third inventor's signature Eturo Yasuda Date Sept 1, 1999 |
| 住 所 | | Residence Nishio-shi, Aichi, Japan |
| 国 籍 | | Citizenship Japanese |
| 私書箱 | | Post Office Address c/o NIPPON SOKEN, INC., 14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan |
| 第四共同発明者 | | Full name of fourth joint inventor, if any Kaoru Kuzuoka |
| 第四共同発明者 | 日付 | Fourth inventor's signature Kaoru Kuzuoka Date Sept 1, 1999 |
| 住 所 | | Residence Toyota-shi, Aichi, Japan |
| 国 籍 | | Citizenship Japanese |
| 私書箱 | | Post Office Address c/o DENSO CORPORATION 1-1 SHOWA-CHO KARIYA-CITY AICHI-PREF. 448-8661 Japan |

| | | | |
|---------|---|--|-----------------------------|
| 第五共同発明者 | Full name of fifth joint inventor, if any Masanori Yamada | | |
| 第五共同発明者 | 日付 | Fifth inventor's signature <i>Masanori Yamada</i> | Date <i>Sept 1, 1999</i> |
| 住 所 | Residence Nishio-shi, Aichi, Japan | | |
| 国 籍 | Citizenship Japanese | | |
| 私書箱 | Post Office Address c/o NIPPON SOKEN, INC., 14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan | | |
| 第六共同発明者 | Full name of sixth joint inventor, if any | | |
| 第六共同発明者 | 日付 | Sixth inventor's signature | Date |
| 住 所 | Residence | | |
| 国 籍 | Citizenship | | |
| 私書箱 | Post Office Address | | |

(Supply similar information and signature for seventh and subsequent joint inventors.)